

## Recovery Plan Action Status

**Plan Name:** Revised Recovery Plan for the Oregon Silverspot Butterfly (*Speyeria zerene hippolyta*)

**Plan Status:** Final Revision 1

**Plan Date:** 22-Aug-01

**Lead Agency:** USFWS

**Lead Office:** Oregon Fish And Wildlife Office

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231-6179 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Oregon silverspot butterfly ( <i>Speyeria zerene hippolyta</i> )	1	1.1.1	Map Long Beach habitat	Partially Complete	FY 2000 - FY 2004	FY 2013	U.S. Fish and Wildlife Service, Ecological Services Division, Washington Department of Fish and Wildlife	Other	Contract	Maps are being revised to include Willapa National Wildlife Refuge property
Oregon silverspot butterfly ( <i>Speyeria zerene hippolyta</i> )	1	1.1.2	Determine willing Long Beach landowners	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Washington Department of Fish and Wildlife	Other: Information and Education	Contract	
Oregon silverspot butterfly ( <i>Speyeria zerene hippolyta</i> )	1	1.1.3	Select Long Beach habitat area	Ongoing Current	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Ecological Services Division, Washington Department of Fish and Wildlife, Oregon Division of State Lands, U.S. Fish and Wildlife Service National Wildlife Refuge System	Research: General	Contract	
Oregon silverspot butterfly ( <i>Speyeria zerene hippolyta</i> )	1	1.1.4	Protect Long Beach habitat	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Washington Department of Fish and Wildlife, Pacific County, Washington	Acquisition: Easement, Acquisition: Management Agreement	Contract	
Oregon silverspot butterfly ( <i>Speyeria zerene hippolyta</i> )	1	1.1.5	Determine Long Beach management plans	Ongoing Current	FY 2009	FY 2011	U.S. Fish and Wildlife Service, Ecological Services Division, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service National Wildlife Refuge System	Acquisition, Other	Contract	

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Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	1.1.6	Implement management plans for Long Beach	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Washington Department of Fish and Wildlife, Pacific County, Washington	Management: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	1.2.1	Map Clatsop Plains habitat	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, Clatsop County, Oregon, Oregon National Guard	Acquisition: General	Contract	Maps completed in 2005, contracted with North Coast Land Conservancy and TNC
Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	1.2.2	Determine willing Clatsop Plains landowners	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division	Acquisition: General	Contract	Contract with North Coast Land Conservancy to help determine willing landowners
Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	1.2.3	Select Clatsop Plains habitat areas	Ongoing Current	FY 2005		U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, Clatsop County, Oregon	Acquisition: General	Contract	Contract with North Coast Lands Conservancy
Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	1.2.4	Protect Clatsop Plains habitat	Ongoing Current	FY 2005		U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Department of Transportation, Pacific County, Washington, Oregon Division of State Lands, Clatsop County, Oregon, Oregon National Guard, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, The Nature Conservancy	Acquisition: Easement, Acquisition: Management Agreement	Internal Technical Assistance	Habitat protected through CE and HCP. North Coast Lands Conservancy holding easements.

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Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	1.2.5	Develop Clatsop Plains management plans	Planned	FY 2007		U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Department of Transportation, PacifiCorp, Pacific Power & Light Company, Oregon Division of State Lands, Clatsop County, Oregon, Oregon National Guard, National Park Service, The Nature Conservancy	Acquisition: General	Contract	North Coast Lands Conservancy is the primary owner of suitable historical OSB habitat on the clatsop Plains approximately 150 acres. A draft OSB Habitat Management Plan was submit in June 2010.
Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	1.2.6	Implement Clatsop Plains management plans	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Department of Transportation, Oregon Division of State Lands, Clatsop County, Oregon, Oregon National Guard, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, The Nature Conservancy	Management: Habitat Maintenance and Manipulation	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.3.1	Map Coastal Mountain habitat	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Forest Service	Acquisition	Contract	completed, started in 1993
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.3.2	Determine willing Coastal Mountain landowners	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, The Nature Conservancy	Acquisition: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.3.3	Select Coastal Mountain habitat areas to be protected	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, Tillamook County, Oregon, U.S. Forest Service	Acquisition: General	Contract	

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Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.3.4	Protect Coastal Mountain habitat identified in 1.3.3	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Lane County, Oregon, Oregon Division of State Lands, Clatsop County, Oregon, Tillamook County, Oregon, U.S. Forest Service	Acquisition: Easement, Acquisition: Management Agreement	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.3.5	Update Coastal Mountain management plans	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service	Acquisition	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.3.6	Implement Coastal Mountain management plans	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Forest Service	Acquisition: General	Contract	Started in 1986
Oregon silverspot butterfly (Speyeria zerene hippolyta)	3	1.3.7	Survey additional coastal mtn. Grasslands	Planned			U.S. Fish and Wildlife Service, Ecological Services Division	Research: Habitat Status	Contract	Preliminary survey of Saddle Mt. for potential future reintroduction site
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.4.1	Map Cascade Head habitat	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service	Research: Habitat Status	Contract	Completed. Started in 1993
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.4.2	Determine willing Cascade Head landowners	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service, The Nature Conservancy	Acquisition: General	Contract	Private landowners in area are being contacted to participate in habitat restoration.
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.4.3	Select Cascade Head habitat areas to be protected	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Lane County, Oregon, Oregon Division of State Lands, U.S. Forest Service, The Nature Conservancy	Research: Other Information	Contract	

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Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.4.4	Protect Cascade Head habitat identified in 143	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Lane County, Oregon, Oregon Division of State Lands, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Forest Service, The Nature Conservancy	Management: General, Management: Habitat Maintenance and Manipulation, Management: Propagation, Management: Reintroduction	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.4.5	Develop Cascade Head management plans	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service, The Nature Conservancy	Acquisition: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.4.6	Implement Cascade Head management plans	Not Started	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service, The Nature Conservancy	Acquisition: General	Contract	10,000 violets were planted in Fall of 2010 to implement habitat enhancement
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.5.1	Map Central Coast habitat	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service	Research: General	Contract	Started in 1993. Is updated as new private landowners sign up for participation in SHA
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.5.2	Determine willing Central Coast landowners	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Natural Heritage Program, U.S. Forest Service	Acquisition: Management Agreement	Contract	Landowners are being identified to participate in SHA with TNC to restore OSB habitat
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.5.3	Select Central Coast habitat areas	Ongoing Current	FY 2008		U.S. Fish and Wildlife Service, Ecological Services Division, Lane County, Oregon, Oregon Natural Heritage Program, U.S. Forest Service	Other	Contract	

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Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.5.4	Protect Central Coast habitat	Ongoing Current	FY 2008		U.S. Fish and Wildlife Service, Ecological Services Division, Lane County, Oregon, Oregon Division of State Lands, U.S. Forest Service, The Nature Conservancy	Management: Habitat Maintenance and Manipulation	Contract	TNC is signing private landowners under SHA and beginning habitat improvements
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.5.5	Update Central Coast management plans	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Lane County, Oregon, Oregon Division of State Lands, U.S. Forest Service	Acquisition: Other	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.5.6	Implement Central Coast management plans	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service	Management: Habitat Maintenance and Manipulation	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.6.1	Map Del Norte habitat	Complete	FY 2007	FY 2008	U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Fish and Game	Research	Contract	Characterize vegetation near monitoring transects
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.6.2	Determine willing Del Norte landowners	Ongoing Current	FY 2007		U.S. Fish and Wildlife Service, Ecological Services Division, Del Norte County, California, California Department of Fish and Game	Management: General	Internal Technical Assistance	working with CA DF&G and CA State Pks. to manage OSB habitat
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.6.3	Select Del Norte habitat areas	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, Del Norte County, California, California Department of Fish and Game	Research: Habitat Status	Contract	

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Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.6.4	Protect Del Norte habitat	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, Del Norte County, California, U.S. Federal Emergency Management Agency, U.S. Fish and Wildlife Service National Wildlife Refuge System, California Department of Fish and Game, U.S. Army Corps of Engineers	Acquisition: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.6.5	Develop Del Norte management plans	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, Del Norte County, California, California Department of Fish and Game, U.S. Army Corps of Engineers	Acquisition: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	1.6.6	Implement Del Norte management plans	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, Del Norte County, California, California Department of Fish and Game, U.S. Army Corps of Engineers	Management: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	2.1.1	Determine habitat requirements for the Oregon silverspot butterfly	Ongoing Current	Prior to FY 1995		The Nature Conservancy	Research: Habitat Status	Contract	Research continues at Del Norte County site, supported by Arcata, FWS Office
Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	2.1.2	Determine habitat requirements for violets and nectar plants	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service	Research: Management Techniques	Contract	NRCS contract to grow violets and nectar for restoration.

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Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	2.1.3	Determine dispersal patterns	Ongoing Current	FY 2009		U.S. Forest Service	Research: General	Graduate Student	Road mortality study at big Creek also researching dispersal and movement of this population
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	2.2.1.1	Controlling exotic grass	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, Oregon National Guard, U.S. Forest Service, The Nature Conservancy	Research: Management Techniques	Internal Technical Assistance	characterizing veg near oviposition sites
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	2.2.1.2	Increasing or maintaining violets.	Ongoing Current	FY 2005		U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service	Research: Habitat Requirements	Contract	NRCS propagating violets, TNC conducting research on increasing violets through various treatment regimes. Volunteers are planting thousands of violets into central coast habitat areas. TNC planting 10,000 violets in 2010
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	2.2.1.3	Increasing or maintaining nectar plants	Ongoing Current	FY 2006		U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands	Management	Contract	Native nectar plants are being propagated at NRCS Plant Materials Center, grown out by OR Zoo and OR coast Aquarium hort. staff and planted 6,000 nectar plants with volunteers at 3 central coast sites
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	2.2.1.4	Controlling trees	Ongoing Current	FY 2009		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Forest Service	Management: Habitat Maintenance and Manipulation	Contract	Trees have been removed where they are encroaching on suitable habitat at Rock Creek/big Creek and Mt. Hebo.



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Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	2.2.1.5	Controlling exotic brush	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service	Management: Habitat Maintenance and Manipulation	Contract	Scot's broom mowed on Clatsop Plain and Salal mowed on Central coast to control brush
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	2.2.1.6	Monitoring and controlling exotic forbs	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon National Guard	Research: Management Techniques	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	2.2.2	Determining effects of management on non-target species.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, California Department of Fish and Game, U.S. Forest Service	Research: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	2.3.1	Captive rearing methods	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division	Research	Contract	Captive rearing methods are being updated each year with increasing survival rates of captive-reared individuals.
Oregon silverspot butterfly (Speyeria zerene hippolyta)	3	2.3.2	Determine release methods	Ongoing Current	FY 2000 - FY 2004		The Nature Conservancy	Research: General	Contract	New methods involve release of caterpillars and/or pupae into less labor intensive release cages.
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	2.4.1.1	Highway impacts at Clatsop plains	Not Started			Oregon Department of Transportation, U.S. Federal Highway Administration	Research: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	1	2.4.1.2	Highway impact at Central Coast	Ongoing Current	FY 2009	FY 2012	U.S. Forest Service	Research	Graduate Student	OSU grad student conducting research on road mortality and possible protective barriers along the road. Butterfly movement is also being studied, 2010-2011
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	2.4.2	Determine how to reduce or compensate for road kills	Not Started			Oregon Department of Transportation	Research: General	Contract	

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Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.1	Determine appropriate parameters to determine population trends	Ongoing Current	Prior to FY 1995		The Nature Conservancy	Research: Other Information	Contract	TNC initiated a modified Pollard method to monitor populations. This method has been used for 20 years at 4 OR OSB sites. Del norte has used this method 2005-2011.
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.2	Determine habitat parameters	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division	Research: Management Techniques	Contract	TNC/Lewis and Clark College research, on-going
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.3	Develop population monitoring guidelines	Ongoing Current	FY 2007	FY 2007	U.S. Fish and Wildlife Service, Ecological Services Division, Washington Department of Fish and Wildlife, Oregon Division of State Lands, California Department of Fish and Game	Research: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.4	Develop habitat monitoring guidelines	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Washington Department of Fish and Wildlife, Oregon Division of State Lands, California Department of Fish and Game	Research: Habitat Status	Contract	Arcata FWS office leading habitat research parameters
Oregon silverspot butterfly (Speyeria zerene hippolyta)	3	3.5.1	Develop monitoring plans for Long Beach	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Washington Department of Fish and Wildlife	Acquisition: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.5.2	Develop monitoring plans for Clatsop Plains	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, Oregon National Guard	Management: Land Use	Internal Technical Assistance	

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Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.5.3	Develop monitoring plans for Coastal Mountains	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service	Management: Land Use	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.5.4	Develop monitoring plans for Cascade Head	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service, The Nature Conservancy	Other	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.5.5	Develop monitoring plans for Central Coast	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service	Management: Land Use, Management: Other, Management: Planning	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.5.6	Develop monitoring plans for Del Norte	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, California Department of Fish and Game, U.S. Army Corps of Engineers	Other	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	3	3.6.1	Implement monitoring plans for Long Beach	Not Started			Washington Department of Fish and Wildlife	Management: Land Use	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.6.2	Implement monitoring plans for Clatsop Plains	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Department of Transportation, Oregon Division of State Lands, Oregon National Guard, National Park Service, The Nature Conservancy	Other	Contract	

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Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.6.3	Implement monitoring plans for Coastal Mountain	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service	Acquisition: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.6.4	Implement monitoring plans for Cascade Head	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Division of State Lands, U.S. Forest Service, The Nature Conservancy	Acquisition: General	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.6.5	Implement monitoring plans for Central Coast	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Oregon Department of Transportation, Oregon Division of State Lands, U.S. Forest Service	Management: Habitat Maintenance and Manipulation	Contract	
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.6.6	Implement monitoring plans for Del Norte	Ongoing Current	FY 2005		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, California Department of Fish and Game, U.S. Army Corps of Engineers	Management: Other	Contract	Population monitoring starting in 2005, vegetation monitoring and research plot for baseline monitoring.
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	3.7	Implement augmentation / reintroduction...based on population trends, etc.	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division	Research: Propagation	Contract	Oregon Zoo, Woodland Park Zoo are contracted to captively rear larvae for augmentations into declining populations. Total Costs TBD
Oregon silverspot butterfly (Speyeria zerene hippolyta)	2	4.1	Reduce take	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division	Management: Land Use	Contract	